file 144

ABSTRACT FORM FOR ALL GSA MEETINGS IN 1988

Complete sections 1 through 7 below

TYPE ABSTRACT within blue lines—Sthey(re)absolute! Mail flat, reinforced.

U. S. Department of Energy

Nº 3532.

CATEGORIZE ALL ABSTRACTS
-Chack ONE discipline below in

which reviewers would be best

SIGNIFICANCE OF THE DISTRIBUTION OF DINOFLAGELLATE ASSEMBLAGES IN THE TYPE ELLENTON FORMATION, SAVANNAH RIVER PLANT: AGE, ENVIRONMENT, OR BOTH?

LUCAS-CLARK, J, Clark Geological Services, Fremont, CA
Both. Assemblages of dinoflagellates from the Paleocene Ellenton
Formation (type locality, Savanrah River Plant) change systematically
with depth in a pattern which can be detected in several cores from
Savanrah River Plant. The change appears to be partly due to the
passage of time, as some species which characterize the upper part of
the Ellenton are typical of assemblages of early late Paleocene
(Sabinian) age, whereas some species which characterize the lower
Ellenton are more typical of assemblages of late Early Paleocene

(Midwayan) age.

A strong impression of environmental control is also present in that some assemblages are strongly dominated by a few species which are associated with restricted environments, whereas others show more diversity. Barren intervals in the cores complicate the analysis.

Tentative criteria for chronology of the Ellenton are presented, and compared to reference sections in Alabama.

qualified to evaluate this abstract. 1 archaeological geology 2 coat geology ☐ '3 economic geology 4 engineering geology 5 environmental geology ☐ 6 general geology ☐ 7 geochemistry ☐ 8 geology education 9 geomorphology ☐10 geophysics ☐11 geoscience information ☐12 glacial geology 13 history of geology □14 hydrogeology ☐15 manne geology রোর micropaleontology 17 mineralogy/crystallography ☐18 oceanography paleontology/paleobotany 20 petroleum geology C321 petrology, experimental ☐22 petrology, ignocus 23 petrology, metamorphic ☐24 cetrology, sedimentary □25 clanetary geology ☐26 Precembrian geology ☐27 Quaternary geology □28 remote sensing ☐29 sedimentalogy ☐30 stratigraphy ☐31 structural geology ☐32 tectonics 133 tectonics/geophysics □34 volcanology

3	TYPES OF SESSIONS AVAILABLE
_	A. SPECIAL — INVITED ABSTRACT FOR A SYMPOSIUM. ☐ This abstract was invited for the symposium titled
	If you checked here, skip to item 4.
	8. VOLUNTEERED ABSTRACTS (1) SPECIAL—THEME SESSION, ANNUAL MEETING ONLY. I would like this abstract considered for oral presentation at the following Theme Session for the Annual Meeting, Denver, 1988.
	1 Diagenesis of lacustrine rocks 2 Geology & Public Policy for the 21st Century 3 Geophysical patterns in North America 4 Global aspects of sedimentary geology 5 Organic compounds in ground water 6 Paleontologic constraints on accreted terranes
	7 Physics and chemistry of mylonites 0.8 Secular variation in the sedimentary record
	If not accepted for the Theme Session, do you want it considered for a regular technical session?
	☐ Yes ☐ No
 	(2) © ORAL SESSION © POSTER SESSION © EITHER TYPE (3) III accept a change of session type (ORAL ——POSTER) if necessary;
	☐ Withdraw my abstract rather than change session

type.

AN YOU BE A SE		N? 🗆 Yes
opic		
our name		
laphone (late June	/early July)	
SPEAKER'S IDENTITY AND MAILING ADDRESS		
Speaker's name		
ddress		
ddress		
ity	State	Zip _
Country		
office Telephone: ()	
loma Telephone: ()	

ADDRESS SHOWN ON INSTRUCTION SHEET AND ON BACK OF THIS FORM, ALL ABSTRACTS MUST ARRIVE ON OR BEFORE

DEADLINE SHOWN FOR EACH MEETING.